Refine Search

Search Results -

Terms	Documents
L2 and complex	1

Database:
US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search: L3

Refine Search | Recall Text | Clear | Interrupt

Search History

DATE: Wednesday, June 21, 2006 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ			
L3	L2 and complex	1	L3
L2	L1 and metal	14	L2
L1	562/$ and hydroxycitric acid	18	L1

END OF SEARCH HISTORY

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 1 through 10 of 14 returned.

☐ 1. Document ID: US 20060106101 A1

L2: Entry 1 of 14 File: PGPB May 18, 2006

PGPUB-DOCUMENT-NUMBER: 20060106101
PGPUB-FILING-TYPE:
DOCUMENT-IDENTIFIER: US 20060106101 A1

TITLE: New double salts of (-)-hydroxycitric acid and a process for preparing the same

PUBLICATION-DATE: May 18, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gokaraju; Ganga Raju	Andhra Pradesh		IN
Gokaraju; Rama Raju	Andhra Pradesh		IN
Gottumukkala; Venkata Subbaraju	Andhra Pradesh		IN
Somepalli; Venkateswarlu	Andhra Pradesh		IN

US-CL-CURRENT: 514/494; 514/574, 556/131, 562/582

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 2. Document ID: US 20050282904 A1

L2: Entry 2 of 14 File: PGPB Dec 22, 2005

PGPUB-DOCUMENT-NUMBER: 20050282904
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050282904 A1

TITLE: Hydroxycitric acid compositions, pharmaceutical and dietary supplements and food products made therefrom, and methods for their use in reducing body weight

PUBLICATION-DATE: December 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Raju, G. Ganga	Labbipet		IN

US-CL-CURRENT: 514/574; 562/584

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 3. Document ID: US 20040229953 A1

L2: Entry 3 of 14 File: PGPB Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040229953
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040229953 A1

TITLE: Process for preparing highly water soluble double salts of hydroxycitric acid particularly alkali and alkaline earth metal double salts

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gokaraju, Ganga Raju	Andhra Pradesh		IN
Gokaraju, Rama Raju	Andhra Pradesh		IN
Gottumukkala, Venkata Subbaraju	Andhra Pradesh		IN
Pratha, Sridhar	Andhra Pradesh		IN

US-CL-CURRENT: 514/574; 562/584

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 4. Document ID: US 20030207942 A1

L2: Entry 4 of 14 File: PGPB Nov 6, 2003

PGPUB-DOCUMENT-NUMBER: 20030207942
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030207942 A1

TITLE: Hydroxycitric acid salt composition and method of making

PUBLICATION-DATE: November 6, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Bhaskaran, Sunil	Wanorie	TX	IN
Mehta, Sevanti	Houston		US

US-CL-CURRENT: 514/574; 424/439, 562/580, 562/584

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 5. Document ID: US 6875891 B2

L2: Entry 5 of 14 File: USPT Apr 5, 2005

US-PAT-NO: 6875891
DOCUMENT-IDENTIFIER: US 6875891 B2

TITLE: Process for preparing highly water soluble double salts of hydroxycitric acid particularly alkali and alkaline earth metal double salts

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 6395296 B1

L2: Entry 6 of 14 File: USPT May 28, 2002

US-PAT-NO: 6395296
DOCUMENT-IDENTIFIER: US 6395296 B1

TITLE: Soluble double metal salt of group IA and IIA of hydroxycitric acid, process of preparing the same and its use in beverages and other food products without effecting their flavor and properties

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 6221901 B1

L2: Entry 7 of 14 File: USPT Apr 24, 2001

US-PAT-NO: 6221901
DOCUMENT-IDENTIFIER: US 6221901 B1

TITLE: Magnesium (-)hydroxycitrate, method of preparation, applications, and compositions in particular pharmaceutical containing same

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 8. Document ID: US 6160172 A

L2: Entry 8 of 14 File: USPT Dec 12, 2000

US-PAT-NO: 6160172
DOCUMENT-IDENTIFIER: US 6160172 A

TITLE: Soluble double metal salt of group IA and IIA of (-) hydroxycitric acid, process of preparing the same and its use in beverages and other food products without effecting their flavor and properties

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 9. Document ID: US 5656314 A

L2: Entry 9 of 14 File: USPT Aug 12, 1997

US-PAT-NO: 5656314
DOCUMENT-IDENTIFIER: US 5656314 A

TITLE: Hydroxycitric acid concentrate and food products prepared therefrom

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

☐ 10. Document ID: US 5536516 A

L2: Entry 10 of 14 File: USPT Jul 16, 1996

US-PAT-NO: 5536516
DOCUMENT-IDENTIFIER: US 5536516 A

TITLE: Hydroxycitric acid concentrate and food products prepared therefrom

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L1 and metal	14

Display Format: - Change Format

Previous Page Next Page Go to Doc#

Hit List

First Hit | Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Search Results - Record(s) 11 through 14 of 14 returned.

☐ 11. Document ID: US 4443619 A

L2: Entry 11 of 14 File: USPT Apr 17, 1984

US-PAT-NO: 4443619
DOCUMENT-IDENTIFIER: US 4443619 A

TITLE: Chlorocitric acids

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 12. Document ID: US 4354039 A

L2: Entry 12 of 14 File: USPT Oct 12, 1982

US-PAT-NO: 4354039
DOCUMENT-IDENTIFIER: US 4354039 A

TITLE: Chlorocitric acids

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 13. Document ID: US 4340754 A

L2: Entry 13 of 14 File: USPT Jul 20, 1982

US-PAT-NO: 4340754
DOCUMENT-IDENTIFIER: US 4340754 A

TITLE: Process for making chlorocitric acid

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWMC | Draw De

☐ 14. Document ID: US 4312885 A

L2: Entry 14 of 14 File: USPT Jan 26, 1982

US-PAT-NO: 4312885
DOCUMENT-IDENTIFIER: US 4312885 A

TITLE: Chlorocitric acids

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                S L1

      FILE 'REGISTRY' ENTERED AT 17:15:59 ON 21 JUN 2006
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      FILE 'CAPLUS' ENTERED AT 17:16:00 ON 21 JUN 2006
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L4            11 S L3 AND ETHYL AND ESTER
L5             3 S L4 AND PY<1999

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L9           621 S L6 FULL

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L10          110 S L9 FULL
L11            1 S L10 AND METAL
L12            2 S L10 AND COMPLEX

      FILE 'REGISTRY' ENTERED AT 17:31:11 ON 21 JUN 2006
L13            2 S HYDROXYCITRIC ACID/CN

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      FILE 'CAPLUS' ENTERED AT 17:32:52 ON 21 JUN 2006
L14           10 S 27750-10-3/PUR
L15           12 S 27750-10-3/PROC
L16           20 S 27750-10-3/PREP
L17            3 S 6205-14-7/PREP
L18            0 S 6205-14-7/PUR
L19            3 S 6205-14-7/PROC
L20           37 S L14 OR L15 OR L16 OR L17 OR L19
L21            7 S L20 AND METAL
L22            0 S L20 AND METAL COMPLEX
L23            4 S L21 AND PY<2003

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L23 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:425706 CAPLUS
DOCUMENT NUMBER: 140:388725
TITLE: An ion-exchange process for enriching hydroxycitric acid extracted from rinds of the Garcinia species for use in preparing food products
INVENTOR(S): Bhandari, Ashok Kumar; Ravindranath, Bhagavathula; Moffett, Alex
PATENT ASSIGNEE(S): Vittal Mallya Scientific Research Foundation, India; Rennaissance Herbs, Inc.
SOURCE: Indian, 17 pp.
CODEN: INXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 178298	A	19970322	IN 1994-MA814	19940826 <--

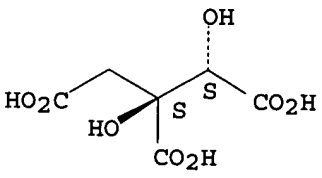
PRIORITY APPLN. INFO.: IN 1994-MA814 19940826

AB A process of preparing hydroxycitric acid from Garcinia rind for use in preparing food products comprises: obtaining a salt-free water extract of the Garcinia species rind loading 100-125% of the extract into an anion-exchange column for adsorption of hydrocitric acid on to the anion exchanger; eluting the hydrocitric acid from the anion-exchange column with an alkali (e.g., sodium hydroxide) for release of the hydroxycitric acid as a Group IA **metal** salt solution; and loading 50-90% of this alkali- and anion-exchanger-treated solution into a cation-exchange column for collection of the hydroxycitric acid as a free acid solution

IT **27750-10-3P**, Hydroxycitric acid
RL: CPS (Chemical process); FFD (Food or feed use); NPO (Natural product occurrence); PEP (Physical, engineering or chemical process); **PUR (Purification or recovery)**; PYP (Physical process); BIOL (Biological study); OCCU (Occurrence); **PREP (Preparation)**; **PROC (Process)**; USES (Uses)
(ion-exchange process for enriching hydroxycitric acid extracted from rinds of the Garcinia species for use in preparing food products)

RN 27750-10-3 CAPLUS
CN D-erythro-Pentaric acid, 3-C-carboxy-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L23 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:70251 CAPLUS
DOCUMENT NUMBER: 140:99583
TITLE: Novel process for the extraction of hydroxycitric acid from fruit rind of Garcinia species
INVENTOR(S): Sharma, Nina; Parashuraman, Meena; Raman, Girija
PATENT ASSIGNEE(S): Lupin Laboratories Limited, India
SOURCE: Indian, 20 pp.

CODEN: INXXAP
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IN 181839	A	19981003	IN 1996-BO542	19961111 <--

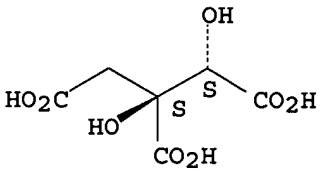
PRIORITY APPLN. INFO.: IN 1996-BO542 19961111

AB A process is described for the extraction of calcium hydroxycitrate from the fruit rind of Garcinia cambogia, G. indica and G. atroviridis. An aqueous suspension of Garcinia rind was treated with a catalytic amount of polygalacturonase and pectin lyase at 30-50°. Sodium hydroxide was added to obtain an intermediate alkali **metal** salt of hydroxycitric acid and achieve a pH of 8-9. Calcium chloride was added to precipitate the corresponding calcium salt. The calcium salt of (-)-erythro-hydroxycitric acid is an active inhibitor of fat formation.

IT **27750-10-3**
RL: NPO (Natural product occurrence); PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); **PROC (Process)**; USES (Uses)
(extraction of hydroxycitric acid from fruit rind of Garcinia species)

RN 27750-10-3 CAPLUS
CN D-erythro-Pentaric acid, 3-C-carboxy-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L23 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:875764 CAPLUS
DOCUMENT NUMBER: 134:28742
TITLE: Soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid, process of preparing the same and its use in beverages and other food products without effecting their flavor and properties
INVENTOR(S): Balasubramanyam, Karanam; Chandrasekhar, Bhaskaran; Ramadoss, Candadai Seshadri; Rao, Pillarisetti Venkata Subba
PATENT ASSIGNEE(S): Vittal Mallya Scientific Research Foundation, India
SOURCE: U.S., 5 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6160172	A	20001212	US 1998-59354	19980414 <--
IN 182487	A	19990417	IN 1997-MA1880	19970827 <--
IN 182488	A	19990417	IN 1997-MA1881	19970827 <--
IN 182489	A	19990417	IN 1997-MA1985	19970908 <--
IN 182490	A	19990417	IN 1997-MA1986	19970908 <--
IN 182810	A	19990724	IN 1997-MA1987	19970908 <--

IN 183849	A	20000429	IN 1998-MA2416		19981028 <--
US 6395296	B1	20020528	US 2000-637085		20000811 <--
PRIORITY APPLN. INFO.:			IN 1997-MA1880	A	19970827
			IN 1997-MA1881	A	19970827
			IN 1997-MA1985	A	19970908
			IN 1997-MA1986	A	19970908
			IN 1997-MA1987	A	19970908
			US 1998-59354	A3	19980414

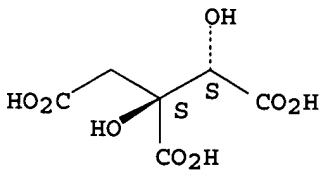
AB The present invention is directed to a new soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid of general formula I: where X is IA group **metal**: Li or Na or K or Rb or Cs or Fr where Y is IIA group **metal**: Be or Mg or Ca or Sr or Ba or Ra where the concentration of X in the salt varies from 1.5-51.0%, the concentration of Y in the salts varies from 2.0-50.9%, the concentration of HCA in the salt varies from 31.0-93.0% depending on the nature of X and Y. This invention more particularly relates to new soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid of general formula II. This invention also includes a process of preparing the soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid of general formula I comprising: preparing (-)-hydroxycitric acid liquid concentrate/solid lactone of hyroxycitric acid from Garcinia extract, neutralizing the free (-)-hydroxycitric acid present in the said (-)-hydroxycitric acid liquid concentrate/solid lactone (-)-hydroxycitric acid with group IA **metal** hydroxides, displacing partially the group IA **metal** ions in the above salt solns. by adding group IIA **metal** chlorides to form soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid, precipitating the said double **metal** salt of group IA & IIA of (-)-hydroxycitric acid by adding aqueous polar solvent to get soluble IIA **metal** salt of (-)-hydroxycitric acid or obtaining the soluble double **metal** salt as powder by spray drying prior to the solvent addition or spray drying water solubilized solvent precipitated material. The instant invention also discloses the use of the said soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid of formula I and particularly formula II in beverages and other food products and its use in beverages and other food products.

IT **27750-10-3DP**, (-)-Hydroxycitric acid, double **metal** salts
RL: FFD (Food or feed use); SPN (Synthetic preparation); BIOL (Biological study); **PREP (Preparation)**; USES (Uses)
(soluble double **metal** salt of group IA and IIA of (-)-hydroxycitric acid, process of preparing the same and its use in beverages and other food products without effecting their flavor and properties)

RN 27750-10-3 CAPLUS

CN D-erythro-Pentaric acid, 3-C-carboxy-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



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L23 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:802411 CAPLUS
DOCUMENT NUMBER: 133:335435
TITLE: Method for the large-scale isolation of garcinia acid

INVENTOR(S): Ibnusaud, Ibrahim; Puthiaparampil, Tom Thomas; Thomas, Beena
PATENT ASSIGNEE(S): Department of Science and Technology, Government of India, India
SOURCE: U.S., 7 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 6147228	A	20001114	US 1999-365301		19990730 <--
IN 190387	A	20030726	IN 1998-DE2248		19980803
PRIORITY APPLN. INFO.:			IN 1998-DE2248	A	19980803

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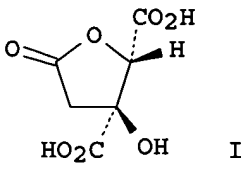


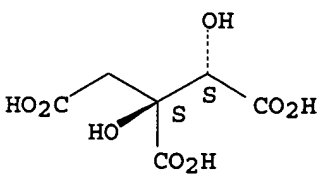
I

AB A process for the isolation of garcinia acid (I) from the fresh or dried rinds of the fruits of Garcinia indica, Garcinia cambogia, and/or Garcinia atroviridis, comprises: (a) subjecting the rinds to extraction to form an extract; (b) adding a solvent (e.g., methanol) to the extract to remove pectin and form a filtrate; (c) converting the filtrate to an alkali salt (e.g., the disodium salt using aqueous sodium hydroxide); (d) neutralizing the alkali salt with an acid (e.g., aqueous hydrochloric acid), followed by evaporation, to form a concentrate; (e) purifying said concentrate using a solvent (e.g., methanol) to remove inorg. matter as impurities, to form a second filtrate; (f) concentrating the second filtrate to yield a crude Garcinia acid; and (g) recrystg. the crude to form pure crystals of garcinia acid I (optical rotation [α]D20 = +102.151°).

IT **27750-10-3P**, Garcinia acid
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); IMF (Industrial manufacture); **PUR (Purification or recovery)**; RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); OCCU (Occurrence); **PREP (Preparation)**; RACT (Reactant or reagent)
(method for the large-scale isolation of garcinia acid)

RN 27750-10-3 CAPLUS
CN D-erythro-Pentaric acid, 3-C-carboxy-2-deoxy- (8CI, 9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> s hydroxycitric acid/cn
L13           2 HYDROXYCITRIC ACID/CN

=> d

L13  ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   27750-10-3  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   D-erythro-Pentaric acid, 3-C-carboxy-2-deoxy- (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   (-)-2-Hydroxycitric acid
CN   (-)-Hydroxycitric acid
CN   Citric acid, 2-hydroxy-, (-)-
CN   Garcinia acid
CN   Hydroxycitric acid
CN   Super CitriMax HCA 600SXS
FS   STEREOSEARCH
DR   4373-35-7
MF   C6 H8 O8
CI   COM
LC   STN Files:   ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO,
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Absolute stereochemistry.  Rotation (-).
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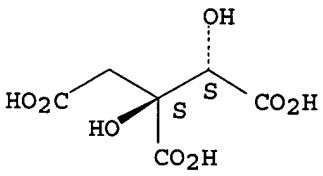


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L13  ANSWER 2 OF 2  REGISTRY  COPYRIGHT 2006 ACS on STN
RN   6205-14-7  REGISTRY
ED   Entered STN:  16 Nov 1984
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OTHER CA INDEX NAMES:
CN   1,2,3-Propanetricarboxylic acid, 1,2-dihydroxy- (7CI, 8CI)
OTHER NAMES:
CN   Hydroxycitric acid
CN   Regulator
FS   3D CONCORD
MF   C6 H8 O8
CI   COM
LC   STN Files:   ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*, BIOSIS, BIOTECHNO,
       CA, CAOLD, CAPLUS, CBNB, CHEMCATS, CIN, CSCHEM, CSNB, EMBASE, MEDLINE,
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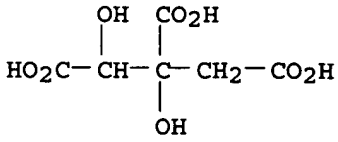

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2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
30 REFERENCES IN FILE CAPLUS (1907 TO DATE)
3 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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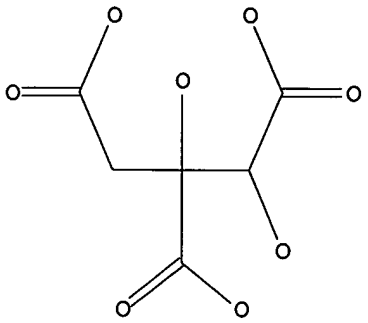

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Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:28:12 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 38025 TO ITERATE

100.0% PROCESSED 38025 ITERATIONS 98 ANSWERS
SEARCH TIME: 00.00.01

L7 98 SEA SSS FUL L1

L8 273 L7

=> s l6 full
REGISTRY INITIATED
Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:28:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 194094 TO ITERATE

100.0% PROCESSED 194094 ITERATIONS 621 ANSWERS
SEARCH TIME: 00.00.01

L9 621 SEA SSS FUL L6

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L10        110 L9

=> s l10 and metal
       1653784 METAL
L11          1 L10 AND METAL

=> d ibib abs hitstr

L11  ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         1991:557127  CAPLUS
DOCUMENT NUMBER:          115:157127
TITLE:                    Cinatrin derivatives as phospholipase A2 inhibitors
                          and their manufacture with Circinotrichum
                          falcatisporum
INVENTOR(S):              Yoshida, Tadashi; Arita, Hitoshi; Matsumoto, Koichi;
                          Itazaki, Hiroshi; Kawamura, Yoshimi
PATENT ASSIGNEE(S):       Shionogi and Co., Ltd., Japan
SOURCE:                   Eur. Pat. Appl., 27 pp.
                          CODEN: EPXXDW
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
     EP 405864             A2    19910102    EP 1990-306872          19900622
     EP 405864             A3    19920108
     EP 405864             B1    19950412
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE
     JP 03108490           A2    19910508    JP 1990-148007          19900606
     AT 121091             E     19950415    AT 1990-306872          19900622
     ES 2073529            T3    19950816    ES 1990-306872          19900622
     US 5099034            A     19920324    US 1990-544673          19900627
     US 5120647            A     19920609    US 1990-617882          19901126
PRIORITY APPLN. INFO.:                       JP 1989-170396      A   19890630
                                             US 1990-544673      A3  19900627
OTHER SOURCE(S):          MARPAT 115:157127
GI
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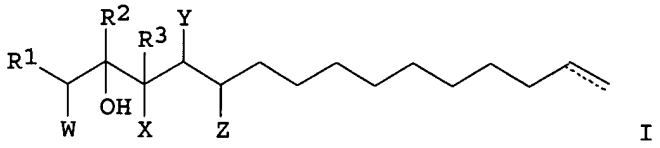
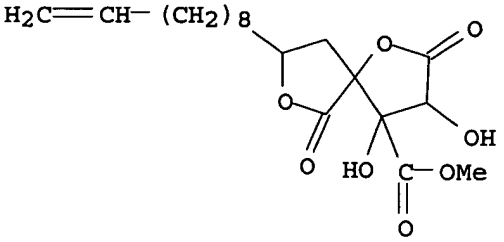


I

AB Cinatrin and its derivs. I (R1, R2, R3 = CO2R4, CO2R5, CO2R6 resp.; R4, R5, R6 = H, lower alkaline, alkaline **metal**; W, Y, Z = H; W/R3, X/R1, and/or Z/R3 may be combined together to form a lactone, an ester, or salt thereof) are manufacture by fermentation with Circinotrichum falcatisporum with optional hydrolysis and/or esterification. Cinatrins A, B, C2, and C3 were isolated from the fermentation broth of C. falcatisporum. Chemical preparation of their Me esters and seco acid Na salts were also shown. Most chemical modified derivs. were more effective as phospholipase A2 inhibitors.

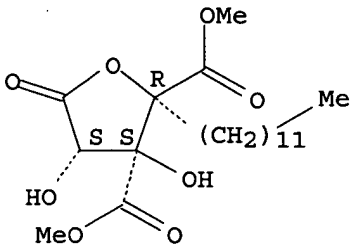
IT **136266-38-1P 136266-39-2P 136266-41-6P**
RL: BMF (Bioindustrial manufacture); BIOL (Biological study); PREP (Preparation)
(manufacture of, from precursor from Circinotrichum falcatisporum, as phospholipase A2 inhibitor)

RN 136266-38-1 CAPLUS
CN 1,7-Dioxaspiro[4.4]nonane-4-carboxylic acid, 8-(9-decenyl)-3,4-dihydroxy-2,6-dioxo-, methyl ester (9CI) (CA INDEX NAME)

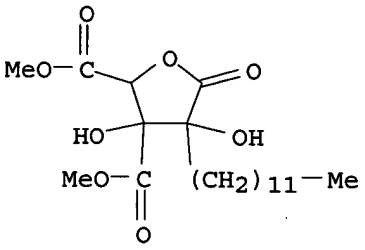


RN 136266-39-2 CAPLUS
CN D-Xylaric acid, 2-C-dodecyl-3-C-(methoxycarbonyl)-, 5,2-lactone, 1-methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 136266-41-6 CAPLUS
CN Pentaric acid, 2-C-dodecyl-3-C-(methoxycarbonyl)-, 1,4-lactone, 5-methyl ester (9CI) (CA INDEX NAME)



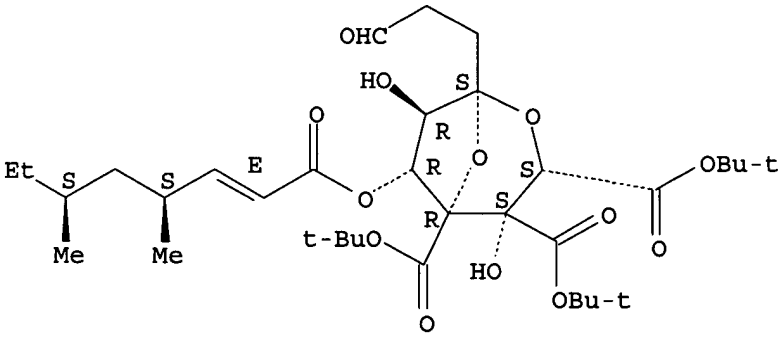
=> s l10 and complex
1265688 COMPLEX
L12 2 L10 AND COMPLEX

=> d 1-2 ibib abs hitstr

L12 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:863840 CAPLUS
DOCUMENT NUMBER: 139:101162
TITLE: Product subclass 17: silyl ethers
AUTHOR(S): White, J. D.; Carter, R. G.
CORPORATE SOURCE: Dept. of Chemistry, Oregon State University, Corvallis, OR, 97331, USA

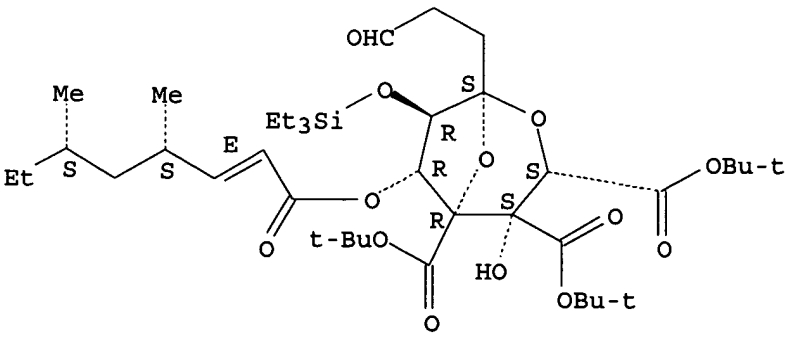
SOURCE: Science of Synthesis (2002), 4, 371-412
CODEN: SSCYJ9
PUBLISHER: Georg Thieme Verlag
DOCUMENT TYPE: Journal; General Review
LANGUAGE: English
AB A review of preparation and applications of silyl ethers. Covered reactions include silylations.
IT **146968-46-9**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of silyl ethers via silylation of alcs. with chlorotriethylsilane)
RN 146968-46-9 CAPLUS
CN D-glycero-β-L-altro-4-Deculo-4,7-furanuronic acid, 4,9-anhydro-2,3-dideoxy-7,8-bis-C-[(1,1-dimethylethoxy)carbonyl]-, 1,1-dimethylethyl ester, 6-[(2E,4S,6S)-4,6-dimethyl-2-octenoate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



IT **185201-17-6P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of silyl ethers via silylation of alcs. with chlorotriethylsilane)
RN 185201-17-6 CAPLUS
CN D-glycero-β-L-altro-4-Deculo-4,7-furanuronic acid, 4,9-anhydro-2,3-dideoxy-7,8-bis-C-[(1,1-dimethylethoxy)carbonyl]-5-O-(triethylsilyl)-, 1,1-dimethylethyl ester, 6-[(2E,4S,6S)-4,6-dimethyl-2-octenoate] (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).
Double bond geometry as shown.



REFERENCE COUNT: 110 THERE ARE 110 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

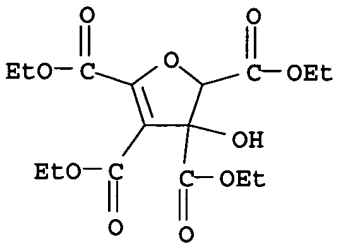
L12 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1962:60500 CAPLUS
DOCUMENT NUMBER: 56:60500
ORIGINAL REFERENCE NO.: 56:11530c-i
TITLE: Reactions of dicarbonyl compounds
AUTHOR(S): Cantlon, I. J.; Cocker, W.; McMurry, T. B. H.
CORPORATE SOURCE: Trinity Coll., Dublin, Ire.
SOURCE: Tetrahedron (1961), 15, 46-52
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB cf. CA 54, 7677g.-Finely powdered EtO2CC(ONa):CHCO2Et (1) (6 g.) shaken several hrs. with 5 g. EtO2CCHBrCOCO2Et (II) in 50 ml. Et2O and kept 16 hrs., the filtered solution evaporated and the residue washed with ice-cold Et2O gave 30% tetraethyl 2,3dihydro-3-hydroxyfurantetracarboxylate (III), m. 82-3°. II (5 g.) and 5 g. EtO2CCOCH2CO2Et in 10 ml. Et2O kept 16 hrs. at room temperature with freshly distilled dried C5H5N, the filtered solution washed with dilute H2SO4 and H2O, the residue on evaporation chilled and the crystalline product washed with ice-cold Et2O gave 0.25 g. III formed by a base-catalyzed reaction of II with the ester. Dehydration of III gave tetraethyl furantetracarboxylate, hydrolyzed to furantetracarboxylic acid (IV) and converted to the tetramethyl ester. BrCH2COCO2Et condensed with I gave triethyl 2,3-dihydro-3hydroxyfurantricarboxylate (V), hydrolyzed to furan-2,3,4tricarboxylic acid (VI), methylated to the trimethyl ester. Spectroscopic data showed that III and V could not possess the alternatively possible ethylene oxide structure. The nuclear magnetic resonance (n.m.r.) spectrum of III showed peaks at 4.88, 5.99 and **complex** bands at 8.66 p.p.m. supporting the assigned structure. Both III and V gave VI when refluxed with HCl and since IV was unaffected by HCl the decarboxylation of III must occur before formation of the furan. The probable mechanism was discussed and an explanation of the dehydration of Ill given. III was not reduced catalytically or by Zn-alc., Zn-AcOH, or Zn-AcOHAgNO3. The close proximity of the 4- and 5-ester groups hindered bromination. III (2 g.) heated 2 hrs. on a steam bath in 10 ml. 1:1 Ac2O-C5H5N, the mixture poured into 30 ml. ice-H2O and neutralized with Na2CO3, extracted with Et2O and the product chromatographed on 30 g. neutral Al2O3, eluted with C6H6-petr. ether and the eluate evaporated gave 0.4 g. IV tetraethyl ester, m. 34°. III (5 g.) in 100 ml. EtOAc ozonized at -78° (solid CO2) 8.5 hrs., the ozonide hydrogenated over Pd-C and the viscous liquid diluted to 15 ml. with alc., the solution (2 ml.) treated with 5 ml. NH4OH (d. 0.880) with evolution of heat and the violet mixture filtered gave 0.2 g. (CONH2)2. The alc. solution (13 ml.) saturated 2 min. with dry HCl, the mixture refluxed 30 min. and the solvent evaporated, the residue taken up in CHCl3 and the H2O-washed and dried solution distilled yielded 0.75 g. (CO2Et)2. The reactions were consistent with an ozonolysis product, v 3500, 1745 cm.-1 with the structure EtO2CCO2CH(CO2Et)C(OH)(CO2Et)COCO2Et but attempts to isolate a degradation product, HOCH(CO2Et)C(OH)(CO2Et) COCO2Et failed. III (500 mg.) in 5 ml Et2O kept 1 week in excess ethereal CH2N2 gave a viscous liquid, v 1540 cm.-1, assigned to an imidazoline C:N or N:N linkage. A mechanism for the formation of III was postulated and discussed. Attempts were made to condense bromodimedon with I but the only product was III in high yield. BrCH2COCH2CO2Et (from 50 g. AcCH2CO2Et) shaken 20 hrs. with excess I in Et2O, the filtered solution evaporated and the 1,4-dicarbethoxy2,5-cyclohexanedione (4.3 g., m. 124-5°) treated with Ac2OC5H5N gave the acetate, m. 170°.

IT **6307-27-3**, 2,3,4,5-Furantetracarboxylic acid, 2,3-dihydro-3-hydroxy-, tetraethyl ester
(preparation of)

RN 6307-27-3 CAPLUS

CN Furantetracarboxylic acid, 2,3-dihydro-3-hydroxy-, tetraethyl ester (9CI) (CA INDEX NAME)



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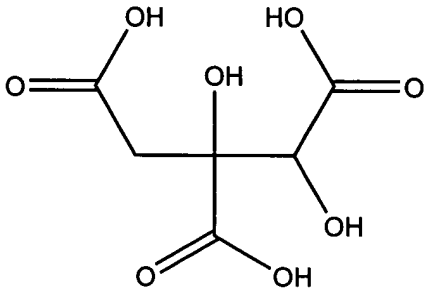

hydroxycitric acid